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(54) PICK PROFILE OF ROTOR CORE OF AC GENERATOR FOR VEHICLE

(57) Abstract:

PURPOSE: To suppress magnetic noise and to facilitate molding of rotor core by making a notch in the rear of a pick part of the rotor core so that the gap between the circumferential face of the pick part and the inner circumferential face of a stator core is enlarged whereas maintaining the gap on the front.

CONSTITUTION: A rotor core comprises pick parts 10 having different polarities and arranged alternately on the outer circumferential face. The rear side edge part 10b of the pick part 10 is beveled so that the gap between the circumferential face of the pick part 10 and the inner circumferential face of the stator core is enlarged, whereas the front side edge part 10a is left as it is so that the gap is sustained. Since only the rear side edge part 10b is beveled, peak position of basic

wave is shifted from that of 3rd harmonic, and thereby the peak level of combined wave, i.e., on-load flux variation wave, lowers thus lowering magnetic noise.

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